

Abstract

An air diffuser (20) for an air intake system of an internal combustion engine. The air intake system 5 includes a throttle body (22) up stream from an intake manifold (24), with the air diffuser (20) mounted between them. The air diffuser (20) includes vanes (62, 64) extending into its main bore (52) in order to diffuse and redirect the air flowing from the throttle body (22) into 10 the intake manifold (24). An EGR assembly (70) is mounted to the manifold (24) just downstream of the inlet to the manifold (24). The diffusion and redirection of the air reduces the noise emanating from the intake manifold (24) for particular engine operating conditions, 15 and also reduces the backflow of EGR gasses into the throttle body (22).